



# OPTICS 20X USB

## PTZ OPTICS Video Conferencing Camera



The PTZ Optics 20X-USB is a 1080p camera with 20X optical zoom for capturing HD video at long distances. With support for USB, HDMI and IP Streaming (H.264) this camera is ideal for broadcasting high definition video signals for broadcast or video conferencing applications.

### KEY FEATURES

- 60.7 degree wide-angle lens.
- High performance in low illumination situations.
- Full 1920x1080p HD Resolutions up to 30 frames per second.
- 2D and 3D noise reduction with our latest “low noise CMOS sensor”.
- Conforms to UVC 1.0 & ONVIF IP Control Protocols
- RJ-454 H.264 Streaming port (Control Software is open source)
- HDMI, USB 3.0, IP Streaming (All Simultaneuos)

### WHAT'S IN THE BOX

- 20X Zoom IP Camera
- Power Adapter
- IR Remote Control
- USB 3.0 Cable
- RS-232C to RS-485 Cable
- User Manual

#### Camera & Lens

Video CMOS Sensor	1/3" CMOS, 2.12 Mega Pixels
Frame Rate	1080p/30, 1080p/25, 720p/60, 720p/50, NTSC, PAL
Lens	20x, F4.42mm-88.5mm, F1.8-F2.8
Lens Zoom	20x, 16x Digital Zoom
Field of View	60.7°
Min Lux	0.5 Lux at F1.8, AGC ON
Shutter Speed	1/25s - 1/10000s
SNR	≥55dB
Vertical Flip & Mirror	Supported
Horizontal Angle of View	60.7° - 3.36°
Vertical Angle of View	34.1° - 1.89°

#### Rear Board Connectors

Video Output Interface	USB 3.0, HDMI, CVBS
Network Interface	RJ45
Audio Interface	Line In/ Line Out, 3.5mm
Communication Interface	RS-232, RS485
Baud Rate	2400/4800/96000 bits
Power Supply Interface	Power Adapter (DC IN 12V)
USB Interface	USB 2.0 (for firmware updatres only)

#### Electrical Index

Power Consumption	18W (Max)
Input Voltage	12V DC (10.8 - 13.0V DC)

#### Pan & Tilt Movement

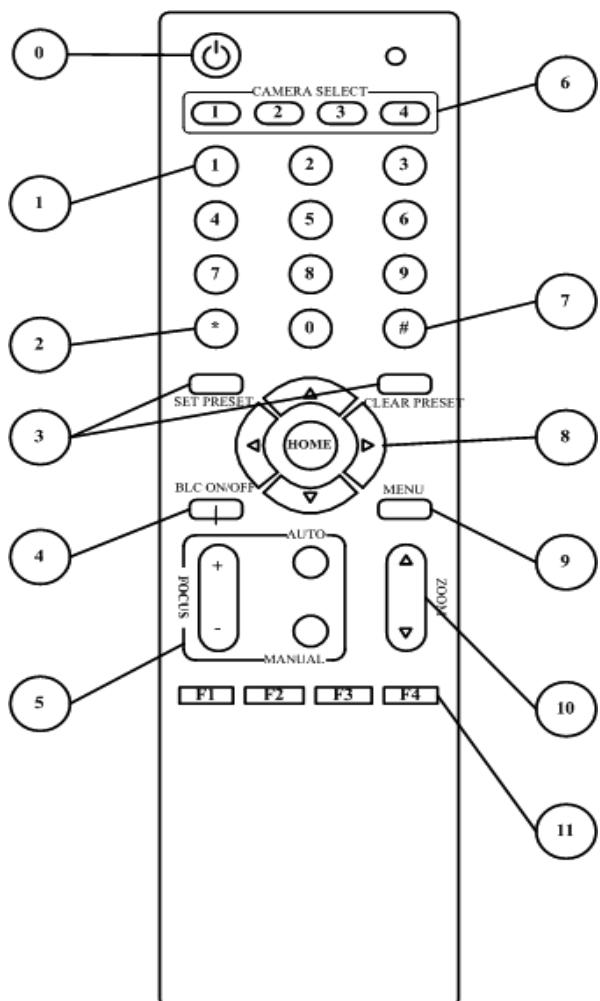
Pan Movement	±170°
Tilt Rotation	-30° - +90°
Presets	245 Presets

#### Physical Specifications

Dimensions	5.59" x 6.65" x 6.93"
Weight	3.3 lbs.



1. Audio LINE IN Interface	8. RS232 OUT Jack
2. Audio LINE OUT Interface	9. Network
3. CVBS Interface	10. USB 3.0
4. Dip Switches	11. DC 12C Jack
5. System Select Switch	12. Power Switch
6. RS485 Jack	13. HDMI
7. RS232 IN jack	



#### 0. Standby Button

Press this button to enter standby mode. Press it again to enter normal mode. (Note: Power consumption in standby mode is approximately half of the normal mode)

#### 1. Position Buttons

To set preset or call preset

#### 2. \* Button

#### 3. Set/Clear Preset Buttons

**Set preset:** Store a preset position [SET PRESET] + Numeric button (0-9): Setting a corresponding numeric key preset position  
**Clear preset:** Erase a preset position [CLEAR PRESET] + Numeric button (0-9)  
**Or:** [\*]+[#]+[CLEAR PRESET]: Erase all the preset individually.

#### 4. BLC (Backlight Compensation)

**Button BLC ON/OFF:** Press this button to enable the backlight compensation. Press it again to disable the backlight compensation. (NOTE: Effective only in auto exposure mode) Note: If a light behind the subject, the subject will become dark. In this case, press the backlight ON / OFF button. To cancel this function, press the backlight ON / OFF button.

#### 5. Focus Buttons

Used for focus adjustment.

Press [AUTO] adjust the focuses on the center of the object automatically. To adjust the focus manually, press the [MANUAL] button, and adjust it with [Focus+] (Focus on far object) and [Focus-] (Focus on near object)

#### 6. Camera Select Buttons

Press the button corresponding to the camera you want to operate with the remote controller.

#### 7. # Button

#### 8. Pan/Tilt Control Buttons

Press arrow buttons to perform panning and tilting. Press [HOME] button to face the camera back to front

#### 9. Menu Setting

Menu button: Press this button to enter or exit the OSD menu

#### 10. Zoom Buttons

Zoom : Zoom In  
 Zoom : Zoom Out

#### 11. Set Camera IR Address Buttons

[\*]+[#]+[F1]: Address1

[\*]+[#]+[F2]: Address2

[\*]+[#]+[F3]: Address3

[\*]+[#]+[F4]: Address4